

Table 11 Model Input for WWTP Performance Run

	Flow mgd	Flow cfs	DM Load	BOD5 ppm	CBu/B5	NBODU ppm	TBODU ppm	TBODU PPD
GNP West	20.9	32.40	8247	47.3	3.25	19	173	30115
Millinocket	0.82	1.27	177	25.9	2.06	72	125	857
GNP East	21.1	32.71	1451	8.2	2.13	6	24	4146
Eastern Paper	10.8	16.74	5070	56.3	2.23	9	135	12117
Lincoln	0.36	0.56	51	17.0	1.46	17	42	126
Old Town	0.89	1.38	403	54.3	1.63	56	144	1073
GP Old Town	15.9	24.65	3576	27.0	4.85	4	135	17874
Orono	0.72	1.12	99	16.5	1.88	4	35	210
Veazie	0.11	0.17	16	17.4	4.21	5	78	72
Bangor	5.88	9.11	907	18.5	2.91	14	68	3326
Brewer	2.48	3.84	232	11.2	2.2	2	27	552
IP Bucksport	12.9	20.00	1019	9.5	3.63	3	37	4022

Table 12 Summary of Model Prediction Runs**Note: Performance based upon 4 summers (99-02) Discharge Monitoring Reports**

Input File	Input Conditions				Model Prediction Results		
	Paper Mills GNP W & E, E Paper, GP Old Town	All Municipal WWTP's except Bangor, Winterport, Bucksport	Bangor	Bucksport Winterport IP Bucksport	Dissolved Oxygen Nonattainment - Length and Max Amt under criteria	Algae Blooms No. Miles > 8 ug/l Chl- a Threshold and Max Chl a	
Pen.7qt	BOD, flow licensed based; TP concentration performance based				51 miles 0.7 ppm	25 miles 14 ug/l	
Penp.7qt	Flow, BOD and TP concentration all performance based				47 miles 0.5 ppm	12 miles 14 ug/l	
Penp2.7qt	TP = .5 ppm BOD, Flow Perform.	BOD, Flow, TP concentration all performance based		No reductions sought, since below influence of non- attainment areas	5 miles 0.2 ppm	5 miles 9 ug/l	
Penp3.7qt	TP = .5 ppm Flow, BOD Perform.	BOD, flow licensed based TP conc performance based			26 miles 0.3 ppm	10 miles 12 ug/l	
Penp4.7qt	TP = .5 ppm Flow, BOD Perform.	BOD Lic based; TP Load based upon perf. (flow,TP conc.)	BOD Perform based; TP load based same as other munic.		2.5 miles 0.3 ppm	5 miles 9 ug/l	
Penp6.7qt	Flow Performance BOD5 = 30 ppm, TP = .5 ppm	Flow performance based; BOD5 = 30 ppm, TP conc performance based			2 miles 0.2 ppm	5 miles 9 ug/l	

Table 13 Summary of Point Source Loads (PPD) in Model Prediction Runs at 7Q10 Flow

	Pen.7qt		PenP.7qt		PenP2.7qt		PenP3.7qt		PenP4.7qt		PenP6.7qt	
	TP	OD5 WA	TP	OD5 DM	TP	BOD5	TP	BOD5	TP	BOD5	TP	BOD5
GNP West	502	13680	244	8247	87	8247	87	8247	87	8247	87	8715
Millinocket	80	874	28	177	28	177	80	874	28	874	28	205
GNP East	385	6710	246	1451	88	1451	88	1451	88	1451	88	1760
Eastern Pap	114	8191	76	5070	45	5070	45	5070	45	5070	45	2702
Lincoln	35	402	12	51	12	51	35	402	12	402	12	90
Old Town	69	638	36	403	36	403	69	638	36	638	36	223
GP Old Towr	244	12780	159	3576	66	3576	66	3576	66	3576	66	3978
Orono	47	690	18	99	18	99	47	690	18	690	18	180
Veazie	11	131	3	16	3	16	11	131	3	131	3	28
Bangor	650	6755	212	907	212	907	650	6755	212	907	212	1471
Brewer	31	1947	15	232	15	232	31	1947	15	1947	15	620
Totals	2168	52799	1050	20229	611	20229	1209	29781	611	23933	611	19973

* Weekly Average Loads. For paper mills, derived by daily maximum load times WA/DM ratio †

** Daily maximum load used for performance runs.